



ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

MICHAEL A. ABRACZINSKAS  
*Director*

**INSERT DATE**

Mr. Ric Aikman  
General Manager  
Unilin Flooring N.V.  
149 Homanit USA Road  
Mount Gilead, North Carolina 27306

SUBJECT: Air Quality Permit No. 08803T21  
Facility ID: 6200061  
Unilin Flooring N.V.  
Mount Gilead, Montgomery County  
Fee Class: Title V  
PSD Class: Major

Dear Mr. Aikman:

In accordance with your completed Air Quality Permit Applications for a significant modification of a Title V permit received April 1, 2016, we are forwarding herewith Air Quality Permit No. 08803T21 to Unilin Flooring N.V., Mount Gilead, Montgomery County, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as "ATTACHMENT 2" to this cover letter. Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt

Mr. Ric Aikman

**INSERT DATE**

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of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Montgomery County has triggered increment tracing under PSD for PM10 and NOx. However, this permit modification does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from **INSERT DATE** until April 30, 2020, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Charles F. Yirka at 919 707 8728 or [charlie.yirka@ncdenr.gov](mailto:charlie.yirka@ncdenr.gov).

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section  
Division of Air Quality, NCDEQ

Enclosure

c: Heather Ceron, EPA Region 4 (permit and review)  
Connie Horne (cover letter only)  
Fayetteville Regional Office  
Central Files

## Summary of Changes to Permit

The following changes were made to the Unilin Flooring N.V. facility, Mt. Gilead, Air Permit No. 08803T20:

Pages	Section	Description of Changes
Cover and throughout	-- -- --	<ul style="list-style-type: none"> <li>• Updated format, responsible official and all dates and permit revision numbers.</li> <li>• Removed paragraph in cover letter concerning the recent minor modification as permit is now final.</li> <li>• Inserted increment statement in cover letter.</li> </ul>
5	1 – Equipment List	<ul style="list-style-type: none"> <li>• Inserted MACT QQQQ designation in the Emissions Source ID No. column for ES-50 the rotographic coating line.</li> <li>• Removed footnote to equipment list concerning the recent minor modification as permit is now final.</li> </ul>
16	2.1 D. Table	<ul style="list-style-type: none"> <li>• Removed reference to permit condition for 02D .0958 as this regulation no longer applies.</li> </ul>
21-25	2.1 G.  2.1 G. Table 2.1 G.3 a.-aa.	<ul style="list-style-type: none"> <li>• Changed description of existing source ES-50 adding “coating wood panels and doorskins”.</li> <li>• Removed 02D .0958 as this regulation no longer applies and added the MACT Subpart QQQQ.</li> <li>• Inserted new permit condition for 02D .1111 and the MACT Subpart QQQQ.</li> </ul>
30	2.2 A. Table 2.2A. 1.a.-d.	<ul style="list-style-type: none"> <li>• Removed Table that only referred to 02D .0958.</li> <li>• Removed permit condition for 02D .0958 as this regulation no longer applies.</li> </ul>
39	2.3 B.	<ul style="list-style-type: none"> <li>• Added permit shield stipulation for MACT Subpart JJ applicability.</li> </ul>
40-48	3	<ul style="list-style-type: none"> <li>• Replaced General Conditions (version 5.1, 08/03/2017)</li> </ul>

ATTACHMENT to Permit No. 08803T21

Insignificant Activities per 15A NCAC 02Q .0503(8)

<b>Emission Source ID</b>	<b>Emission Source Description</b>
<b>I-F1</b>	Raw material unloading operations
<b>I-F2</b>	Covered shavings building
<b>I-F3</b>	Roundlog chips handling/storage operations
<b>I-F4</b>	Sawmill chip handling/storage
<b>I-F5</b>	Fuel chips handling/storage
<b>I-F6</b>	Overflow chip handling
<b>I-F7</b>	Chip handling infeed to process
<b>I-F35</b>	Sanderdust truck loading
<b>I-PW1, PW2, and PW3</b>	Three parts washers
<b>IES-PUMP (MACT, Subpart ZZZZ)</b>	One diesel fuel-fired 265 horsepower fire pump
<b>I-Tank</b>	Two 30,000 gallon capacity propane storage tanks
<b>I-VAP</b>	One 1.52 million BTU/hour propane vaporizer

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled "Specific Permit Conditions Regulatory Guide." The link to this site is as follows:  
<http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.



State of North Carolina  
Department of Environmental Quality  
Division of Air Quality

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
08803T21	08803T20	INSERT DATE	April 30, 2020

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

**Permittee:** **Unilin Flooring N.V.**

**Facility ID:** **6200061**

**Facility Site Location:** **149 Homanit USA Road**  
**City, County, State, Zip:** **Mount Gilead, Montgomery County, North Carolina 27306**  
**Mailing Address:** **149 Homanit USA Road**  
**City, State, Zip:** **Mount Gilead, North Carolina 27306**

**Application Number:** **6200061.17A**  
**Complete Application Date:** **March 24, 2017**

**Primary SIC Code:** **2493**  
**Division of Air Quality:** **Fayetteville Regional Office**  
**Regional Office Address:** **Systel Building**  
**225 Green Street, Suite 714**  
**Fayetteville, NC 28301-5043**

Permit issued this the **INSERT DATE**

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William D. Willets, P.E., Chief, Permitting Section  
By Authority of the Environmental Management Commission

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List of Acronyms

## SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
6-9, 28-34, 37-38	ES-HP* (PSD; CAM; MACT, Subpart DDDD;)	<p>One Heating Plant consisting of:</p> <ul style="list-style-type: none"> <li>-One wood-fired boiler (131 million Btu per hour maximum heat input capacity; <b>No. -1</b>);</li> <li>-One sanderdust duct burner system (52 million Btu per hour maximum heat input capacity; <b>No. -2</b>);</li> <li>-Two No. 2 fuel oil-fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; <b>Nos. -3 and -4</b>);</li> <li>-One No. 2 fuel oil-fired auxiliary burner (75 million Btu per hour maximum heat input capacity; <b>No. -5</b>)</li> <li>-Two natural gas fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; <b>Nos. -6 and -7</b>);</li> <li>-One natural gas fired auxiliary burner (75 million Btu per hour maximum heat input capacity; <b>No. -8</b>)</li> <li>-*Two propane fired auxiliary burners (41 million Btu per hour maximum heat input capacity, each; <b>Nos. -9 and -10</b>);</li> <li>-*One propane fired auxiliary burner (75 million Btu per hour maximum heat input capacity; <b>No. -11</b>)</li> </ul>	<p>CD-01</p> <p>CD-SCRB</p>	<p>One multicyclone (304, 9-inch diameter tubes),</p> <p>one aqueous-assisted fiber removal chamber (270 gallons per minute minimum injection rate)</p>
10-12, 28-35, 38	ES-DRY (PSD; CAM; MACT, Subpart DDDD)	One blowline flash-tube dryer	CD-SCRB	One aqueous-assisted fiber removal chamber (270 gallons per minute

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
	ES-BP (PSD; CAM; MACT, Subpart DDDD)	One hot oil heated continuous board press		minimum injection rate)
	ES-RFN (PSD; CAM; MACT, Subpart DDDD)	One pressurized refiner		
21	ES-F-08	Board breaker and conveyor (fugitive emission source)	NA	NA
21	ES-F-09	Board breaker and conveyor (14 tons per hour throughput capacity) (fugitive emission source)	NA	NA
21, 30-34, 38	ES-F-BC (MACT, Subpart DDDD)	Board cooling and stacking area (fugitive emission source)	NA	NA
13-15, 30-34, 38	ES-21 (MACT, Subpart DDDD; CAM)	One dried fiber grader system No. 1	CD-CY21  CD-FF21	One simple cyclone (140 inches in diameter)  one bagfilter (3,702 square feet of filter area)
13-15, 30-34, 38	ES-22 (MACT, Subpart DDDD; CAM)	One dried fiber grader system No. 2	CD-CY22  CD-FF22	One simple cyclone (140 inches in diameter)  one bagfilter (3,702 square feet of filter area)
13-15, 30-34, 38	ES-23 (MACT, Subpart DDDD; CAM)	One mat trimmings return air system	CD-CY23a  CD-CY23b,  CD-FF23	simple cyclone (124 in diameter)  simple cyclone (157 inches in diameter)  one bagfilter (15,069 square feet of filter area)
13-15, 30-34, 38	ES-FHS (MACT, Subpart DDDD; CAM)	Pneumatic chip handling infeed system	CD-CYFHS  CD-FF23	One high efficiency cyclone (78 inches in diameter)  one bagfilter (15,069 square feet of filter area)
13-15, 30-34, 38	ES-31 (MACT, Subpart DDDD; CAM)	One fine sanderdust pneumatic conveyor system	CD-FF31	One bagfilter (6,150 square feet of filter area)



Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
13-15, 30-34, 38	ES-32 (MACT, Subpart DDDD; CAM)	One coarse sanderdust pneumatic conveyor system	CD-FF32	One bagfilter (8,680 square feet of filter area)
13-15, 30-34, 38	ES-33 (MACT, Subpart DDDD) (CAM)	One sawing and cutting pneumatic conveyor system	CD-FF33	One bagfilter (4,650 square feet of filter area)
13-15, 30-34, 38	ES-34 (MACT, Subpart DDDD) (CAM)	One press trim saw and dust collection system	CD-CY34  CD-FF34	One simple cyclone (98 inches in diameter)  one bagfilter (3,020 square feet of filter area)
16, 27, 30-34, 38	ES-40a, ES-40b, ES-40c, ES-40d, ES-40e (MACT, Subpart DDDD)	Five fixed roof resin storage tanks (30,000, 30,000, 30,000, 30,000, and 25,000 gallon capacity, respectively)	NA	NA
16, 27, 30-34, 38	ES-40f (MACT, Subpart DDDD)	One fixed roof wax storage tank (25,000 gallon capacity)	NA	NA
17-20	ES-41 (MACT, Subpart ZZZZ)	One No. 2 fuel oil-fired 755 horsepower emergency generator	NA	NA
22, 27	ES-50 (MACT, Subpart QQQQ)	One rotographic surface coating line	NA	NA
25-26, 30-34, 38	ES-EVAP* (MACT, Subpart DDDD)	natural gas/*propane-fired evaporator (750 gallons per hour maximum process rate, 7.55 million Btu per hour maximum heat input rate)	NA	NA
25-26, 30-34, 38	ES-EVAP-2* (MACT, Subpart DDDD)	natural gas/*propane-fired evaporator (1,000 gallons per hour maximum process rate, 13 million Btu per hour maximum heat input rate)	NA	NA

Note. The total heat input rate in the heating plant while firing wood or wood in combination with sanderdust/No. 2 fuel oil/natural gas/propane shall not exceed 183 million Btu per hour.

## SECTION 2- SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1- Emission Source(s) and Control Device(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) listed below are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements as specified herein:

#### A. One heating plant (ID No. ES-HP) consisting of:

- one wood-fired boiler (ID No. ES-HP-1);
  - one sanderdust duct burner system (ID No. ES-HP-2);
  - two No. 2 fuel oil-fired auxiliary burners (ID Nos. ES-HP-3 and ES-HP-4);
  - one No. 2 fuel oil-fired auxiliary burner (ID No. ES-HP-5),
  - two natural gas fired auxiliary burners (ID Nos. ES-HP-6 and ES-HP-7);
  - one natural gas fired auxiliary burner (ID No. ES-HP-8);
  - two propane fired auxiliary burners (ID Nos. ES-HP-9 and ES-HP-10);
  - one propane fired auxiliary burner (ID No. ES-HP-11)
- with associated multicyclone (ID No. CD-01) and aqueous-assisted fiber removal chamber (ID No. CD-SCRB), in series.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	See Section 2.1.A.1.	15A NCAC 02D .0504
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20% opacity	15A NCAC 02D .0521
Volatile Organic Compounds	BACT Limitation 7.49 pounds per ODT <b>See Section 2.2.B.1</b>	15A NCAC 02D .0530
PM-10	<b>See Section 2.2.B.2</b>	15A NCAC 02D .0614
Hazardous air pollutants	<b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
n/a	<b>See Section 2.3</b> <b>PERMIT SHIELD</b>	n/a

#### 1. 15A NCAC 02D .0504: PARTICULATES FROM WOOD BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of a combination of wood, No. 2 fuel oil, natural gas or propane that are discharged from this source (**ID No. ES-HP**) into the atmosphere shall not exceed an allowable emission rate as calculated by the following equation:

$$E = \frac{(0.37)(Q_w) + (0.29)(Q_o)}{(Q_w + Q_o)}$$

Where:

E = emission limit, in pounds per million Btu,

Qw = actual wood heat input rate in Btu per hour,  
 Qo = actual No. 2 fuel oil, natural gas, and propane heat input rate in Btu per hour.

$Q_o \leq 157$  million Btu per hour, and

$Q_w + Q_o \leq 183$  million Btu per hour

**Testing** [15A NCAC 02Q .0508(f)]

- b. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by conducting emission testing on the emission sources in 2.1.A. in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. The testing shall be conducted biennially (within 24 months of the previous test date). The Permittee shall submit a written report of the test(s) results to the Regional Supervisor, DAQ within 60 days of completion of the test. If the results of two consecutive compliance tests are less than 80% of the above standard, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard, then biennial testing shall resume. If the results of this test are above the limit given in Section 2.1 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from this source (**ID No. ES-HP**) shall be controlled by one multicyclone (**ID No. CD-01**), and one aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. a daily check on the pressure drop across the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**).
  - ii. a daily check of the minimum flow to the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**).
  - iii. a monthly visual inspection of the system ductwork and including the multicyclone (**ID No. CD-01**) and aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) for leaks; and
  - iv. an annual (for each 12-month period following the initial inspection) internal inspection of the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) for structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the ductwork and control devices are not inspected and maintained or the monitored parameters are not maintained within the prescribed ranges.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the control devices; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.
- e. During periods of routine control device maintenance downtime as described in application No. 6200061.10C, particulate matter emissions from this source (**ID No. ES-HP**) shall be controlled by one multicyclone (**ID No. CD-01**).

**Reporting** [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

## **2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source (**ID No. ES-HP**) shall not exceed 2.3 pounds per million Btu heat input while firing wood fuel, natural gas, or No. 2 fuel oil. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

### **Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

### **Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of wood fuel, No. 2 fuel oil, natural gas or propane in this source (**ID No. ES-HP**).

## **3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source (**ID No. ES-HP**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

### **Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

### **Monitoring** [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a day the Permittee shall observe the emission points of this source (**ID No. ES-HP**) for any visible emissions above normal. The daily observation must be made for each day of the calendar year period that this emission source is in operation to ensure compliance with this requirement. For days when this emission source is not operating, the Permittee shall document "not operating" in the recordkeeping associated with this permit condition. The Permittee shall be allowed three (3) days of absent observations per semi-annual period. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**B.**

- **One blowline flash-tube dryer (ID No. ES-DRY);**
- **One hot oil heated continuous board press (ID No. ES-BP); and**
- **One pressurized refiner (ID No. ES-RFN);**

**all controlled by one aqueous-assisted fiber removal chamber (ID No. CD-SCRB)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
n/a	<b>(ES-RFN only)</b> Start-up Restrictions	15A NCAC 02D .0501
Particulate matter	<i>For <math>P \leq 30</math>, <math>E = 4.10 \times P^{0.67}</math></i> <i>For <math>P &gt; 30</math>, <math>E = 55.0(P)^{0.11} - 40</math></i> Where: E = allowable emission rate in pounds per hour; and P = process weight in tons per hour	15A NCAC 02D .0515
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Volatile Organic Compounds	BACT Limitation 7.49 lb/ODT <b>See Section 2.2.B.1</b>	15A NCAC 02D .0530
PM-10	<b>See Section 2.2.B.2</b>	15A NCAC 02D .0614
Hazardous air pollutants	<b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

**1. 15A NCAC 02D .0501: COMPLIANCE WITH EMISSION CONTROL STANDARDS**

The Permittee shall comply with the following refiner start-up operational restrictions:

- a. Start-up while charging the refiner (**ID No. ES-RFN**) [bypassing the flashtube dryer (**ID No. ES-DRY**) control device] while venting to the start-up cyclone shall not exceed one hour per 24 hour period; and
- b. For all start-ups, the Permittee shall record the date, time and duration that the refiner (**ID No. ES-RFN**) operated in the start-up bypass mode. These records shall be maintained by the Permittee for a minimum of five years and made available to the Division upon request.

**2. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) shall not exceed an allowable emission rate as calculated by the following equations:

$$\begin{aligned} \text{For } P \leq 30, \quad E &= 4.10 \times P^{0.67} \\ \text{For } P > 30, \quad E &= 55.0(P)^{0.11} - 40 \end{aligned}$$

Where:

E = allowable emission rate in pounds per hour

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 02Q .0508(f)]

- b. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit(s) above by conducting emission testing on the emission sources in 2.1.B. in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. The testing shall be conducted biennially (within 24 months of the previous test date). The Permittee shall submit a written report of the test(s) results to the Regional Supervisor, DAQ within 60 days of completion of the test. If the results of two consecutive compliance tests are less than 80% of the above standard, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard, then biennial testing shall resume. If the results of this test are above the limit given in Section 2.1 B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504

**Monitoring/Recordkeeping** [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) shall be controlled by one aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) except as allowed per condition f. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall comply with the monitoring Section 2.1.A.1. above.  
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork and control devices are not inspected and maintained.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the control devices; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.
- e. During periods of routine control device maintenance downtime as described in application no. 6200061.10C, particulate matter emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) are permitted to be emitted out of the bypass stack **EP11** (as described in application 6200061.10C) without control by the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**) in series.

**Reporting** [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent no more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring** [15A NCAC 02Q .0508(f)]

***Normal Operating Scenario***

- c. The Permittee shall comply with the monitoring in Section 2.1.A.3. above.

***Bypass Operating Scenario***

- d. During periods in which the emissions from these sources (**ID Nos. ES-DRY, ES-BP, and ES-RFN**) are not being controlled by the aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**), the Permittee shall, once per day, observe the emission point **EP-11** of this source for any visible emissions above normal. This observation must be made for each day of the calendar year period when the bypass operating scenario is occurring to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3.a. above.

The Permittee shall be deemed in noncompliance with 15A NCAC .0521 if the monitoring requirements in conditions c. through d. are not met.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.



## C.

- One dried fiber grader system No. 1 (ID No. ES-21) controlled by one simple cyclone (ID No. CD-CY21) in series with one bagfilter (ID No. CD-FF21);
- One dried fiber grader system No. 2 (ID No. ES-22) controlled by one simple cyclone (ID No. CD-CY22) in series with one bagfilter (ID No. CD-FF22);
- One mat trimmings return air system (ID No. ES-23) controlled by two parallel simple cyclones (ID Nos. CD-CY23A and CD-CY23B) in series with one bagfilter (ID No. CD-FF23);
- One fine sanderdust pneumatic conveyor system (ID No. ES-31) controlled by one bagfilter (ID No. CD-FF31);
- One coarse sanderdust pneumatic conveyor system (ID No. ES-32) controlled by one bagfilter (ID No. CD-FF32);
- One sawing and cutting pneumatic conveyor system (ID No. ES-33) controlled by one bagfilter (ID No. CD-FF33); and
- One press trim saw and dust collection system (ID No. ES-34) controlled by one simple cyclone (ID No. CD-CY34) in series with one bagfilter (ID No. CD-FF34)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Particulate matter	Comply with CAM plan See Section 2.2.D.1.	15A NCAC 02D .0614
Hazardous air pollutants	<b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

# 1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

## **Monitoring** [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from the wood material collection systems (ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34) shall be controlled by five cyclones (ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34) and seven bagfilters (ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34) as listed above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
  - i. monthly external inspection of the ductwork, cyclones (ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34), and bagfilters (ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34) noting the structural integrity; and
  - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters (ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34) noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and bagfilters are not inspected and maintained.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance for the cyclones (**ID Nos. CD-CY21, CD-CY22, CD-CY23a, CD-CY23b, and CD-CY34**) and bagfilters (**ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, and CD-FF34**) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring** [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a month the Permittee shall observe the emission points of these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) for any visible emissions above normal. The monthly observation must be made for each of the calendar year periods to ensure compliance with this requirement. If visible emissions from these sources (**ID Nos. ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, and ES-34**) are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a. above.

If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**D.**

- **Five fixed roof resin storage tanks (ID Nos. ES-40a through ES-40e), and**
- **One fixed roof wax storage tank (ID No. ES-40f)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Hazardous air pollutants	<b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

**E. One No. 2 fuel oil-fired 755 horsepower emergency generator (ID No. ES-41)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	MACT Standards. See Section 2.1.E.3	15A NCAC 02D .1111 (40 CFR 63, Subpart ZZZZ)

**1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from these sources (**ID Nos. ES-41 and ES-PUMP**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No. 2 and diesel fuel oil for these sources (**ID Nos. ES-41 and ES-PUMP**).

**2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-41 and ES-PUMP**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring/recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 oil or diesel fuel in these sources (**ID Nos. ES-41 and ES-PUMP**).

**3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY  
(40 CFR Part 63 Subpart ZZZZ)**

**Applicability** [40 CFR 63.6585, 63.6590(a)(1)(ii)]

- a. For these emission sources (**ID Nos. ES-41 and ES-PUMP**), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

**Definitions and Nomenclature**

- b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.6675 shall apply.

**Applicability Date** [40 CFR 63.6595(a)(1)]

- c. The Permittee shall comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013.

**Notifications** [40 CFR 63.6645(a)(5)]

- d. The Permittee has no notification requirements.

**General Provisions** [40 CFR 63.6665]

- e. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart ZZZZ

**Operating and Maintenance Requirements** [15A NCAC 02Q .0508(b)]

- f. During periods of startup of the IC engine, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.[40 CFR 63.6602 and 63.6625(h)]
- g. Except during periods of startup of the IC engine, the Permittee shall:
  - i. Change oil and filter every 500 hours of operation or annually, whichever comes first;
  - ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
  - iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[40 CFR 63.6602, Table 2C]
- h. The Permittee shall have the option to utilize the oil analysis program as described in 40 CFR 63.6625(i) in order to extend the specified oil change requirement in condition g. [40 CFR 63.6602, Table 2C, 63.6625(i)]
- i. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in condition g., or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure

to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR 63.6602, Table 2C]

- j. The Permittee shall be in compliance with the emission limitations, operating limitations and other requirements in this subpart that apply at all times. [40 CFR 63.6605(a)]
- k. The Permittee shall operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]
- l. The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) and 63.6640(a), Table 6]
- m. In order for the engine to be considered an emergency stationary RICE under this condition, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (1) through (3) below, is prohibited.
  - (1) There is no time limit on the use of emergency stationary RICE in emergency situations.
  - (2) The Permittee may operate the emergency stationary RICE for any combination of the purposes specified in paragraphs (i) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (3) below counts as part of the 100 hours per calendar year allowed by this paragraph (2).
    - (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine.

The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

- (3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (m)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 63.6640(f)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if conditions **e. through m.** are not met.

**Monitoring** [15A NCAC 02Q .0508(f)]

- n. The Permittee shall install a non-resettable hour meter on the IC engine if one is not already installed. [40 CFR 63.6625(f)]

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- o. The Permittee shall keep the following:
  - i. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv). [40 CFR 63.6655(a)(1)]
  - ii. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment). [40 CFR 63.6655(a)(2)]
  - iii. Records of actions taken during periods of malfunction to minimize emissions in accordance with **condition k.**, including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation. [40 CFR 63.6655(a)(5)]
  - iv. Records of the maintenance conducted on the RICE pursuant to **condition l.** [40 CFR 63.6655(d) and (e)]
  - v. Records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in (m)(2)(ii) or (iii) above, the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [40 CFR 63.6655(f)]
- p. The Permittee shall keep each record in a form suitable and readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660(a), (b), (c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if conditions **n.** **through p.** are not met.

**Reporting** [15A NCAC 02Q .0508(f)]

- q. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance must be clearly identified. [40 CFR 63.6640(b), (e), and 63.6650(f)]
  - i. The summary report shall also include any reporting required under **condition i.**, as necessary. [40 CFR 63.6602, Table 2C]

The Permittee shall be deemed in noncompliance with the reporting requirements of 15A NCAC 02D .1111 if **condition q.** are not met.

**F.**

- **Two fugitive board breaking and conveyor systems (ID No. ES-F-08 and ES-F-09), and**
- **One fugitive board cooling and stacking area (ID No. ES-F-BC)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	( <b>ES-F-BC only</b> ) <b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

**1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from these sources (**ID Nos. ES-F-08, ES-F-BC and ES-F-09**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from these sources (**ID Nos. ES-F-08, ES-F-BC and ES-F-09**).



**G. One rotographic surface coating line (ID No. ES-50) coating wood panels and doorskins**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products	15A NCAC 02D .1111 (40 CFR 63, Subpart QQQQ)

One rotographic surface coating line (ID No. ES-50) performing the surface coating of doorskins as defined in the doors, windows and miscellaneous category of §63.4681(a) and which includes the following activities as listed in §63.4682(b) associated with the coating of doorskins:

- All coating operations as defined in 40 CFR 63.4781;
- All storage containers and mixing vessels in which coatings, thinners, and cleaning materials are stored or mixed;
- All manual and automated equipment and containers used for conveying coatings, thinners, and cleaning materials; and
- All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.

**1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Wood Building Products (Subpart QQQQ)**

**Applicability** [40 CFR 63.4681]

- For the **existing** emission sources subject to “**MACT Subpart QQQQ**” as indicated above and in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart QQQQ National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products. [40 CFR 63.4681(a)(1)]
- This Subpart does not apply to surface coating and other operations that meet the following criteria:
  - Surface coating in the processes identified in 40 CFR 63.4681(c)(1)(i) through (xi) that are part of plywood and composite wood product manufacturing and are subject to Subpart DDDD. [40 CFR 63.4681(c)(1)]
  - Surface coating of wood furniture subject to Subpart JJ, including finishing, gluing, cleaning, and washoff operations associated with the production of wood furniture or wood furniture components. The surface coating of millwork and trim associated with cabinet manufacturing is also subject to Subpart JJ. [40 CFR 63.4681(c)(2)]

**Definitions and Nomenclature** [40 CFR 63.4781]

- For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.4781 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.4701]

- The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources, as identified in Table 4 to 40 CFR Part 63, Subpart QQQQ.

**Testing** [15A NCAC 02D .2601]

- e. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in condition e. and f. below, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

**Compliance Dates** [40 CFR 63.4683(b)]

- f. For an existing affected source, the compliance date is the date 3 years after **May 28, 2003**.

**Emission Limitations** [15A NCAC 02Q .0508(b), 40 CFR 63.4690]

- g. For an **existing** affected source, organic HAP emissions to the atmosphere shall be limited limit to no more than the applicable emission limit(s) in Table 2 to this subpart, determined according to the requirements in §63.4741, §63.4751, or §63.4761. [40 CFR 63.4690(b)]
- h. The organic HAP content of each coating used in the Subpart QQQQ affected sources shall not exceed 7 grams organic HAP per liter of solids (or 0.06 pounds (lbs) organic HAP per gallon (gal) solids); determined as a rolling 12-month emission rate according to the requirements in §63.4741, §63.4751, or §63.4761, as applicable.

**Emissions Limit Compliance Option** [15A NCAC 02Q .0508(b), 40 CFR 63.4691]

- i. Emission rate without add-on controls option. The Permittee shall demonstrate, based on the coatings, thinners, and cleaning materials used in the coating operation(s), the organic HAP emission rate for the coating operation(s) is less than or equal to the applicable emission limit(s) in §63.4690, calculated as a rolling 12-month emission rate and determined on a monthly basis. The Permittee shall meet all the requirements of §§63.4750, 63.4751, and 63.4752 to demonstrate compliance with the emission limit using this option. [40 CFR 63.4691(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the above emissions limit is exceeded.

**Monitoring and Continuous Compliance Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.4700, 63.4751]

- j. The Permittee shall meet the emission limitations of conditions g. and h. at all times for each compliance period. [40 CFR 63.4700]
- k. The coating operation(s) must be in compliance with the applicable emission limit in §63.4690 at all times, except during periods of startup, shutdown, and malfunction (SSM).
- l. HAP content of coating, thinners and cleaning materials shall be determined according to 40 CFR 63.4751(a) through (e) and Equations 1 through 1C. [40 CFR 63.4751].
- m. The total combined volume of coating solids used for all the coating used during each month using Equation 2 in 63.4751(f) as follows [40 CFR 63.4751]:

$$V_{st} = \sum_{i=1}^m (Vol_{c,i}) (V_{si}) \quad (\text{Eq. 2})$$

Where:

$V_{st}$  = Total volume of coating solids used during the month, liters.

$Vol_{c,i}$  = Total volume of coating, i, used during the month, liters.

$V_{s,i}$  = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to §63.4741(b).

m = Number of coatings used during the month.

- n. Organic HAP content (grams HAP/liter solids) shall be determined using Equation 3 in 40 CFR 63.4751(g) as follows [40 CFR 63.4751]:

$$H_{yr} = \frac{\sum_{y=1}^{12} H_e}{\sum_{y=1}^{12} V_{st}} \quad (\text{Eq. 3})$$

Where:

$H_{yr}$  = Organic HAP emission rate for the 12-month compliance period, grams organic HAP per liter coating solids.

$H_e$  = Total mass of organic HAP emissions, grams, from all materials used during month, y, as calculated by Equation 1 of this section.

$V_{st}$  = Total volume of coating solids used during month, y, liters, as calculated by Equation 2 of this section.

y = Identifier for months.

- o. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in 40 CFR 63.4740 is the end of a compliance period consisting of that month and the preceding 11 months. The initial compliance period begins upon startup of the Subpart QQQQ affected sources.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the above monitoring requirements are not met.

**Operating Limits/Work Practice Standards** [40 CFR 63.4692(a) and 63.4693(a)]

- p. For the above affected sources on which the Permittee uses the emission rate without add-on controls option, the Permittee is not required to meet any operating limits or work practice standards.

**Notifications** [40 CFR 63.4710]

- q. The Permittee shall submit the notifications in 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to you by the dates specified in those sections, except as provided in paragraphs r. through t. below.
- r. Per 63.4710(b), the Permittee shall submit the Initial Notification required by §63.9(b) for an existing affected source no later than 120 days after **May 28, 2003**.
- s. The Permittee shall submit the Notification of Compliance Status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in §63.4740, §63.4750, or §63.4760 that applies to your affected source. The initial compliance period for existing sources began on May 28, 2006 as specified in §63.4683 and ends the last day of the 12<sup>th</sup> month following the compliance date. If the compliance date occurs on any day other than the first day of a month, then the initial compliance period extends through the end of that month plus the next 12 months.
- t. The Notification of Compliance Status must contain the information specified in paragraphs (c)(1) through (9) of §63.4710 and in §63.9(h).

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the above notifications requirements are not met.

**Recordkeeping** [15A NCAC 02Q .0508(f), 40 CFR 63.4730]

- u. The following records must be kept. Failure to collect and keep these records is a deviation from the applicable standard.
  - i. A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.
  - ii. A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner, and cleaning material and the volume fraction of coating solids for each coating. If you use information provided to you by the manufacturer or supplier

of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier.

- iii. For each compliance period, the following records:
  - 1. A record of the coating operations at which you used each compliance option and the time periods (beginning and ending dates and times) you used each option.
  - 2. For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners, and cleaning materials used each month for doorskins, using Equations 1, 1A through 1C, and 2 of §63.4751; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.4751(e)(4); the calculation of the total volume of coating solids used each month, using Equation 2 of §63.4751; and the calculation of each 12-month organic HAP emission rate, using Equation 3 of §63.4751.
- iv. A record of the name and volume of each coating, thinner, and cleaning material used during each compliance period.
- v. A record of the mass fraction of organic HAP for each coating, thinner, and cleaning material used during each compliance period, if applicable.
- vi. A record of the volume fraction of coating solids for each coating used during each compliance period, if applicable.
- vii. A record of the density for each coating used during each compliance period, if applicable.
- viii. You must keep records of the date, time, and duration of each deviation.
- v. As specified in 40 CFR 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- w. You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). You may keep the records off-site for the remaining 3 years.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the above recordkeeping requirements are not met.

**Reporting** [15A NCAC 02Q .0508(f), 40CFR 63.4720]

- x. The Permittee shall submit a summary report (semiannual compliance report) of the monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.
- y. The semiannual compliance report must contain the following information:
  - i. Company name and address.
  - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - iii. Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
  - iv. Identification of the compliance option or options specified in 40 CFR 63.4691 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates you used each option.
- z. If there were no deviations from the emission limitations in 40 CFR 63.4690 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.
- aa. If there was a deviation from the applicable emission limit in 40 CFR 63.4690, the semiannual compliance report must contain the information in paragraphs (i) through (iv).

- i. Identification of each coating used that deviated from the emission limit, each thinner and cleaning material used that contained organic HAP, and the dates and time periods each was used.
- ii. The calculation of the organic HAP content (using Equation 2 of 40 CFR 63.4741) for each coating identified in paragraph (i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by coating suppliers or manufacturers, or test reports).
- iii. The determination of mass fraction of organic HAP for each coating, thinner, and cleaning material identified in paragraph (i) of this section. You do not need to submit background data supporting this calculation (e.g., information provided by material suppliers or manufacturers, or test reports).
- iv. A statement of the cause of each deviation.

**H. Pneumatic chip handling infeed system (ID No. ES-FHS) controlled by one high efficiency cyclone (ID No. CD-CYFHS) installed in series with one bagfilter (ID No. CD-FF23)**

The following table provides a summary of limits and standards for the emission source(s) described above:

<b>Regulated Pollutant</b>	<b>Limits/Standards</b>	<b>Applicable Regulation</b>
Particulate matter	Adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Particulate matter	Comply with CAM plan See Section 2.2.D.1.	15A NCAC 02D .0614

**1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS**

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

**Monitoring** [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from the pneumatic chip handling infeed system (**ID No. ES-FHS**) shall be controlled by one cyclone (**ID No. CD-CYFHS**) and one bagfilter (**ID No. CD-FF-23**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:
  - i. monthly external inspection of the ductwork, cyclones, and/or bagfilters noting the structural integrity; and
  - ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters (eliminate if there are not any bagfilters) noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and/or bagfilters and are not inspected and maintained.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance for the cyclones and bagfilters shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection; and
  - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

**Reporting** [15A NCAC 02Q .0508 (f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

## 2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from pneumatic chip handling infeed system (**ID No. ES-FHS**) controlled by one cyclone (**ID No. CD-CYFHS**) and one bagfilter (**ID No. CD-FF-23**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521 (d)]

### **Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

### **Monitoring** [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
  - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
  - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1.H.2.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

### **Recordkeeping** [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

### **Reporting** [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**I. Two natural gas-fired evaporators (ID Nos. ES-EVAP and ES-EVAP2)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate Matter	$For P \leq 30, E = 4.10 \times P^{0.67}$ $For P > 30, E = 55.0(P)^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour; and P = process weight in tons per hour	15A NCAC 02D .0515
Sulfur Dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	<b>See Section 2.2.C.1</b> National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)

**1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from these sources (**ID Nos. ES-EVAP and ES-EVAP2**) shall not exceed an allowable emission rate as calculated by the following equation:

$$\begin{aligned}
 For P \leq 30, & \quad E = 4.10 \times P^{0.67} \\
 For P > 30, & \quad E = 55.0(P)^{0.11} - 40
 \end{aligned}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping or reporting is required for particulate matter emissions from this source.

**2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from this source shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 02D .0516]

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition 2.1 I.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from this source.



**3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from this source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

**Testing** [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition 2.1 I.3.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping or reporting is required for visible emissions from this source.

## 2.2- Multiple Emission Source(s) Specific Limitations and Conditions

### A.

- One heating plant (ID No. ES-HP) with associated multicyclone (ID No. CD-01) and aqueous-assisted fiber removal chamber (ID No. CD-SCRB), in series; and
- The following sources, all controlled by one aqueous-assisted fiber removal chamber (ID No. CD-SCRB):
  - One blowline flash-tube dryer (ID No. ES-DRY);
  - One hot oil heated continuous board press (ID No. ES-BP); and
  - One pressurized refiner (ID No. ES-RFN)
  - One pressurized refiner (ID No. ES-RFN)

### 1. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded for the Heating Plant (ID No. ES-HP), blowline flash-tube dryer (ID No. ES-DRY), hot oil heated continuous board press (ID No. ES-BP) and pressurized refiner (ID No. ES-RFN):

Emission Source	Pollutant	Emission Limits	Control Technology
Heating Plant (ID No. ES-HP)	Volatile Organic Compounds	Total VOC emissions shall not exceed 7.49 pounds/ODT	One aqueous-assisted fiber removal chamber (ID No. CD-SCRB)
Blowline flash-tube dryer (ID No. ES-DRY), Hot oil heated continuous board press (ID No. ES-BP), and Pressurized refiner (ID No. ES-RFN)			

#### Testing [15A NCAC 02Q .0508(f)]

- b. If testing is required for emissions of volatile organic compounds, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

#### Monitoring/Recordkeeping/ Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping or reporting is required for volatile organic compound emissions from this source.

### 2. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

- a. For sources listed in paragraph 2.2.A.2.a.i and associated control devices listed in paragraph 2.2.A.2.a.ii, the Permittee shall comply with 40 CFR Part 64, pursuant to 15A NCAC 02D .0614, to assure that all listed emission sources and control devices comply with the particulate emission limits of 15A NCAC 02D .0503, 02D .0504, and 02D .0515.
- i. Emission sources: ES-HP, ES-BP, ES-DRY, and ES-RFN
  - ii. Control devices: CD-SCRB
- b. The Permittee shall maintain the total scrubber flow rate for the control device CD-SCRB at or above the minimum flow rate established during performance testing.
- i. Based on the July 24, 2014 performance test and the 6200061.14A permit application, the minimum total scrubber flow rate is 270.0 gallons per minute on a 3-hour block average basis.

#### Monitoring [15A NCAC 02Q .0508(f)]

- c. The Permittee shall install, operate, and maintain a flowmeter that measures the total scrubber flow rate.
  - i. The Permittee shall perform routine inspections and maintenance as recommended by the flowmeter's manufacturer.
  - ii. The Permittee shall continuously monitor and record the data generated by the flowmeter.
- d. In the event of an excursion, the Permittee shall take appropriate action to correct the excursion as soon as practicable.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- e. The results of monitoring, inspections, maintenance, and corrections conducted pursuant to paragraph 2.2.A.2.c. shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. The date and time of each recorded action;
  - ii. The results of the visible emissions monitoring, noting any excursions along with any corrective actions taken to correct or reduce visible emissions;
  - iii. The results of any inspections or maintenance performed on the control devices; and
  - iv. Any variance from manufacturer's recommendations (if any) and corrections made.

**Reporting** [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of the monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.
  - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

**B. Facility-Wide Sources Subject to 40 CFR Part 63, Subpart DDDD:****1. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR Part 63, Subpart DDDD)**

The Permittee shall comply with MACT requirements using a combination of existing scrubber technology and a change in resin (conversion from urea formaldehyde [UF] to methyl-diphenyl diisocyanate [MDI]). In addition to a change in resin and to ensure the emissions from the Press, Heating Plant, Refiner and Dryer the Permittee shall meet the compliance options and operating requirements in Table 1B, Row 5 (reduce overall formaldehyde by 90%) and establish and maintain the average operating parameters within the ranges established during the performance test as per Table 2 Row 4 (use of control device other than thermal oxidizer, catalytic oxidizer, or biofilter) to 40 CFR 63, Subpart DDDD. [40 CFR 63.2240(b)]

Source	Pollutant	Regulation	Potential Pre-Control Emissions*	Emissions Limit	Control Device
Heating Plant ( <b>ES-HP</b> ), Press ( <b>ES-BP</b> ), Dryer ( <b>ES-DRY</b> ), Refiner ( <b>ES-RFN</b> )	formaldehyde	40 CFR Part 63, Subpart DDDD	63.0 pounds per hour	90 % reduction	One aqueous-assisted fiber removal chamber ( <b>ID No. CD-SCRB</b> )

\*as established by performance test on **August 28, 2008**

**Applicability** [40 CFR 63.2231]

- a. For the emission sources subject to “MACT Subpart DDDD” as indicated in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDD National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

**Definitions and Nomenclature** [40 CFR 63.2292]

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.2292 shall apply.

**40 CFR Part 63 Subpart A General Provisions** [40 CFR 63.2290]

- c. The Permittee shall comply with the requirements of 40 CFR Part 63 Subpart A General Provisions according to the applicability of Subpart A to such sources, as identified in Table 10 to 40 CFR Part 63, Subpart DDDD.

**Emission Limitations and Operating Requirements** [15A NCAC 02Q.0508]

- d. The Permittee shall determine compliance with Table 1B compliance option 5 (90% reduction in formaldehyde emissions) through the use of Equation 1 of 40 CFR 63.2262(h):

$$PR = CE \times \frac{ER_{in} - ER_{out}}{ER_{in}} (100)$$

Where:

- PR = percent reduction (%)
- CE = capture efficiency (%) (assumed to be 100% Press, Heating Plant, Refiner and Dryer according to 40 CFR 63, Subpart DDDD Table 4)
- ER<sub>in</sub> = emission rate of formaldehyde in the inlet vent stream of the control device as established by performance test on **August 28, 2008** (63.0 lb/hr)

ER<sub>out</sub> = emission rate of formaldehyde in the outlet vent stream of the control device (lb/hr) (calculated using the performance test results from testing the outlet of the scrubber CD-SCRB and operating at 90% of the full production rate).

**Aqueous-assisted Fiber Removal Chamber Site-Specific Operating Parameters**

- e. The Permittee shall maintain the following operating parameters within the ranges established during the performance test(s) required by 2.2.B.1.m. Based on the most recent test, performed July 24, 2014, the parameters are:
  - i. Monitoring:
    - Scrubber Flow (total of the following with a minimum of 270 GPM):
      - A. Quench water nozzle water flow (GPM);
      - B. Contact chamber nozzle water flow (GPM); and
      - C. Wash ring flow (GPM)
  - ii. Scrubber Pressure (each with a minimum pressure in PSI):
    - A. Quench water nozzle atomizing air pressure (minimum of 55.0 PSI); and
    - B. Contact chamber nozzle atomizing air pressure (minimum of 48.3 PSI)
  - iii. Scrubber pH (pH range of 3.5 to 9.0):
  - iv. Routine maintenance:
    - A. Inspect and clean the mist eliminators – once quarterly
    - B. Inspect and clean the nozzles– once quarterly
    - C. The flow, pressure and pH monitoring devices shall be operated maintained and calibrated in accordance with manufacturer's written instructions

The Permittee shall administratively amend this permit for the above site specific operating parameter ranges as determined during an NC DAQ approved emission test.  
[Table 2, Row 4, 40 CFR Part 63 Subpart DDDD]

- f. The emission limitations in d. do not apply during times when control device maintenance covered under the approved routine control device maintenance exemption (per application 6200061.07B) is performed. The Permittee must minimize emissions to the greatest extent possible during these routine control device maintenance periods. [40 CFR 63.2251]
- g. Operation of the process units controlled as described in d. during periods of routine control device maintenance as requested in application no. 6200061.07B must not exceed 3 percent of annual operating uptime for each process unit controlled. [40 CFR 63.2251]
- h. The Permittee shall operate the board press (ID No. ES-BP) in an enclosure that meets the definition of a wood products enclosure in 40CFR 63.2292.
- i. The Permittee must always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.2250(b)]
- j. The Permittee must develop a written Startup, Shutdown, and Malfunction Plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.2250(c)]
- k. To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down. [40 CFR 63.2251(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D.1111 if the operating requirements in e. through j. are not met.

**Affected Sources Not Subject to Operating Requirements** [40 CFR 63.2252]

- l. For process units not subject to the compliance options or work practice options specified in 40 CFR 63.2240, the Permittee is not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this 40 CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A except for the initial notification requirements in 40 CFR 63.9(b).

**Testing** [15A NCAC 02Q .0508(f)]

- m. Emissions testing of the outlet of the scrubber (**ID No. CD-SCRB**) for formaldehyde emissions is required and the site specific operating parameters as per 2.2.B.1.e., above shall be monitored and a maximum, minimum or range established during testing in order to demonstrate continuous compliance. Testing shall be conducted while using MDI resins and under representative operating conditions of at least 90% of the full production rate (ODT) and as defined in 40 CFR 63.2292. The results of the emissions test for formaldehyde shall be reported in units of pounds per hour and pounds per oven dry tons. The testing shall be conducted biennially (within 24 months of the previous test date) and performed in accordance General Condition JJ. The Permittee shall submit a written report of the test results to the Regional Supervisor, DAQ within 60 days of the completion of the formaldehyde test. If the results of two consecutive compliance tests are less than 80% of the above standard future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test exceed 80% of the standard then biannual testing shall resume. If the results of this test are above the limit given in Section 2.2.B.1.d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111.

**Monitoring Installation, Operation and Maintenance Requirements** [40 CFR 63.2269]

- n. *General continuous monitoring parameter monitoring requirements* - The Permittee shall install, operate, and maintain each continuous parameter monitoring system (CPMS) for monitoring scrubber flow, pressure and pH according to the following:
  - i. The CPMS must be capable of completing a minimum of one cycle of operation (sampling, analyzing, and recording) for each successive 15-minute period.
  - ii. At all times, you must maintain the monitoring equipment including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
  - iii. Record the results of each inspection, calibration, and validation check.
  - iv. The 3-hour block average of all recorded readings, calculated after every 3 hours of operation of all recorded readings as the average of the evenly spaced recorded reading in the previous 3 operating hours shall be determined. [40 CFR 63.2270(d)]
  - v. To calculate the data averages for each 3-hour averaging period at least 75 percent of the required recorded readings for that period using only recorded readings shall be based on valid data (not from periods of SSM. [40 CFR 63.2270(f)]

**Recordkeeping Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.2282 and .2283]

- o. The Permittee shall keep the following:
  - i. A copy of each notification and report submitted to comply with this Subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, according to the requirements in 40 CFR 63.10(b)(2)(xiv).
  - ii. The records in 40 CFR 63.6(e)(iii) through (v) related to startup, shutdown, and malfunction.
  - iii. Documentation of the approved routine control device maintenance exemption, requested under 40 CFR 63.2251.
  - iv. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
- p. The Permittee must maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). [40 CFR 63.2283(a)]

- q. As specified in §63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.2283(b)]
- r. The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.2283(c)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per conditions p. through s.

**Notification Requirements** [40 CFR 63.2280]

- s. The Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified. [40 CFR 63.2280(a)]

The Permittee must submit a written notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as specified in 40 CFR 63.7(b)(I). The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the notification requirements in s. are not met.

**Reporting Requirements** [15A NCAC 02Q .0508(f), 40 CFR 63.2281]

- t. The Permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June [40 CFR 63.2281(b)(5)]
- u. The compliance report must contain the information in paragraphs 1) through 8) of this section.
  - 1) Company name and address.
  - 2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - 3) Date of report and beginning and ending dates of the reporting period.
  - 4) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information specified in §63.10(d)(5)(i).
  - 5) A description of control device maintenance performed while the control device was offline and one or more of the process units controlled by the control device was operating, including the information specified in paragraphs 5)(i) through (iii) of this section.
    - (i) The date and time when the control device was shut down and restarted.
    - (ii) Identification of the process units that were operating and the number of hours that each process unit operated while the control device was offline.
    - (iii) A statement of whether or not the control device maintenance was included in your approved routine control device maintenance exemption developed pursuant to 40 CFR 63.2251. If the control device maintenance was included in your approved routine control device maintenance exemption, then you must report the information in paragraphs(5)(iii)(A) through (C) of this section.
      - (A) The total amount of time that each process unit controlled by the control device operated during the semiannual compliance period and during the previous semiannual compliance period.
      - (B) The amount of time that each process unit controlled by the control device operated while the control device was down for maintenance covered under the routine control device maintenance exemption during the semiannual compliance period and during the previous semiannual compliance period.
      - (C) Based on the information recorded under paragraphs 5)(iii)(A) and (B) of this section for each process unit, compute the annual percent of process unit operating uptime during

which the control device was offline for routine maintenance using Equation 1 of this section.

$$RM = \frac{DT_p + DT_c}{PU_p + PU_c} \quad (Eq. 1)$$

Where:

RM = Annual percentage of process unit uptime during which control device is down for routine control device maintenance;

PU<sub>p</sub> = Process unit uptime for the previous semiannual compliance period;

PU<sub>c</sub> = Process unit uptime for the current semiannual compliance period;

DT<sub>p</sub> = Control device downtime claimed under the routine control device maintenance exemption for the previous semiannual compliance period;

DT<sub>c</sub> = Control device downtime claimed under the routine control device maintenance exemption for the current semiannual compliance period.

- 6) The results of any performance tests conducted during the semiannual reporting period.
  - 7) If there are no deviations from any applicable compliance option or operating requirement, a statement that there were no deviations from the compliance options or operating requirements during the reporting period.
  - 8) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
- v. For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in this Subpart, you must include the information in paragraphs s. 1) through s. 6) and paragraphs t. 1) through t. 11) of this section. This includes periods of startup, shutdown, and malfunction and routine control device maintenance.
- 1) The date and time that each malfunction started and stopped.
  - 2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.
  - 3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
  - 4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction; during a period of control device maintenance covered in your approved routine control device maintenance exemption; or during another period.
  - 5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.
  - 6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control system problems, control device maintenance, process problems, other known causes, and other unknown causes.
  - 7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.
  - 8) A brief description of the process units.
  - 9) A brief description of the CMS.
  - 10) The date of the latest CMS certification or audit.
  - 11) A description of any changes in CMS, processes, or controls since the last reporting period.
- [40 CFR 63.2271, .2281]



**C. Wood Handling Sources Subject to 15A NCAC 02D .0614, including:**

- One dried fiber grader system No. 1 (ID No. ES-21) controlled by one simple cyclone (ID No. CD-CY21) in series with one bagfilter (ID No. CD-FF21);
- One dried fiber grader system No. 2 (ID No. ES-22) controlled by one simple cyclone (ID No. CD-CY22) in series with one bagfilter (ID No. CD-FF22);
- One mat trimmings return air system (ID No. ES-23) controlled by two parallel simple cyclones (ID Nos. CD-CY23A and CD-CY23B) in series with one bagfilter (ID No. CD-FF23);
- One fine sanderdust pneumatic conveyor system (ID No. ES-31) controlled by one bagfilter (ID No. CD-FF31);
- One coarse sanderdust pneumatic conveyor system (ID No. ES-32) controlled by one bagfilter (ID No. CD-FF32);
- One sawing and cutting pneumatic conveyor system (ID No. ES-33) controlled by one bagfilter (ID No. CD-FF33); and
- One press trim saw and dust collection system (ID No. ES-34) controlled by one simple cyclone (ID No. CD-CY34) in series with one bagfilter (ID No. CD-FF34)
- Pneumatic chip handling infeed system (ID No. ES-FHS) controlled by one high efficiency cyclone (ID No. CD-CYFHS) installed in series with one bagfilter (ID No. CD-FF23)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Comply with CAM plan	15A NCAC 02D .0614

**1. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]**

- a. For sources listed in paragraph 2.2.C.1.a.i and associated control devices listed in paragraph 2.2.C.1.a.ii, the Permittee shall comply with 40 CFR Part 64, pursuant to 15A NCAC 02D .0614, to assure that all listed emission sources and control devices comply with the particulate emission limits of 15A NCAC 02D .0512.
  - i. Emission sources: ES-21, ES-22, ES-23, ES-31, ES-32, ES-33, ES-34, ES-FHS
  - ii. Control devices: CD-CY21, CD-FF21, CD-CY22, CD-FF22, CD-CY23A, CD-CY23B, CD-CYFHS, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34
- b. The Permittee shall maintain and operate the control devices as listed in Section 1.

**Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]**

- c. The Permittee shall install, operate, and maintain a pressure drop indicator on each of the subject bagfilters (ID Nos. CD-FF21, CD-FF22, CD-FF23, CD-FF31, CD-FF32, CD-FF33, CD-FF34).
  - i. The Permittee shall perform routine inspections and maintenance as recommended by the pressure indicators' manufacturer.
  - ii. The Permittee shall continuously monitor and record the data generated by the indicators.
- d. The acceptable pressure drop range for each filter is between 0.1 and 10 inches of water on a daily average basis.
- e. In the event of an excursion, the Permittee shall take appropriate action to correct the excursion as soon as practicable.

**Recordkeeping** [15A NCAC 02Q .0508(f)]

- f. The results of monitoring, inspections, maintenance, and corrections conducted pursuant to paragraph 2.2.C.1.c. shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. The date and time of each recorded action;
  - ii. The results of the visible emissions monitoring, noting any excursions along with any corrective actions taken to correct or reduce visible emissions;
  - iii. The results of any inspections or maintenance performed on the control devices; and
  - iv. Any variance from manufacturer's recommendations (if any) and corrections made.

**Reporting** [15A NCAC 02Q .0508(f)]

- g. The Permittee shall submit a summary report of the monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
  - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

## 2.3- Permit Shield for Non-applicable Requirements

The Permittee is shielded from the following non-applicable requirements [15A NCAC 02Q .0512(a)(1)(A) and (B)].

- A. New Source Performance Standard (NSPS) Subpart Db is not applicable to the heating plant (**ID No. ES-HP**) because the heating plant is considered a process heater and the primary purpose is to produce a final product.

The heating plant (**ID No. ES-HP**) consists of:

- one wood-fired boiler (**ID No. ES-HP-1**);
- one sanderdust duct burner system (**ID No. ES-HP-2**);
- two No. 2 fuel oil-fired auxiliary burners (**ID Nos. ES-HP-3 and ES-HP-4**);
- one No. 2 fuel oil-fired auxiliary burner (**ID No. ES-HP-5**),
- two natural gas fired auxiliary burners (**ID Nos. ES-HP-6 and ES-HP-7**);
- one natural gas fired auxiliary burner (**ID No. ES-HP-8**);

with associated multicyclone (**ID No. CD-01**) and aqueous-assisted fiber removal chamber (**ID No. CD-SCRB**), in series.

- B. National Emission Standard for Wood Furniture Manufacturing Operations Subpart JJ is not applicable to the rotographic surface coating line (**ID No. ES-50**) operations. Unilin manufactures high density fiberboard panels. While some of its panels are coated and sent to furniture plants for use in manufacturing furniture, the panels when manufactured at the Unilin site are not considered to be furniture or furniture components as defined in Subpart JJ.

### SECTION 3 - GENERAL CONDITIONS (version 5.1, 08/03/2017)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance  
North Carolina Division of Air Quality  
1641 Mail Service Center  
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]  
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]  
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]  
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]  
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]  
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements  
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application;
  - b. changes that modify equipment or processes; or
  - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]  
The Permittee may make changes in the operation or emissions without revising the permit if:
  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

**I.A. Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (*Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.*)

“Deviations” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
  - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
    - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
      - name and location of the facility;
      - nature and cause of the malfunction or breakdown;
      - time when the malfunction or breakdown is first observed;
      - expected duration; and
      - estimated rate of emissions;
    - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
    - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
  - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

**I.B. Other Requirements under 15A NCAC 02D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. **Emergency Provisions** [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
  - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;
  - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
  - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and

readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
  - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
  - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
  - c. the applicable requirements under Title IV; or
  - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.



V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
  - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
  - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
  - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain

such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.

2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

**DD. Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

**EE. Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)** – FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

**FF. Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

**GG. Air Pollution Emergency Episode** [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

**HH. Registration of Air Pollution Sources** [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

**II. Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

**JJ. General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.

4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
  - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
    - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
    - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
    - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
  - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

**KK. Reopening for Cause [15A NCAC 02Q .0517]**

1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
  - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
  - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

**LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]**

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

**MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]**

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. **Specific Permit Modifications** [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
  - a. a description of the change at the facility;
  - b. the date on which the change will occur;
  - c. any change in emissions; and
  - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

## ATTACHMENT

### List of Acronyms

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CAA</b>	Clean Air Act
<b>CAIR</b>	Clean Air Interstate Rule
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>DAQ</b>	Division of Air Quality
<b>DEQ</b>	Department of Environmental Quality
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>NAA</b>	Non-Attainment Area
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAP</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>RACT</b>	Reasonably Available Control Technology
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound